

PATENT

Docket No.: JCLA12519

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of : ICHIRO KAMIMURA et al.  
Application No. : 10/734,948  
Filed : December 11, 2003  
For : NON-AZEOTROPIC REFRIGERANT  
MIXTURE, REFRIGERATING CYCLE  
AND REFRIGERATING DEVICE

Group Art Unit :

**Certificate of Mailing**  
I hereby certify that this  
correspondence and all marked  
attachments are being deposited with  
the United States Postal Service as  
first class mail in an envelope  
addressed to: Commissioner for  
Patents, P.O. BOX 1450, Alexandria  
VA 22313-1450, on  
April 20, 2004  
(Date)  
  
Jiawei Huang, Reg. No. 43,330

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

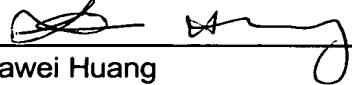
Enclosed are a European Search Report and a PTO Form 1449 listing  
TWELVE ( 12 ) reference(s), copy of which is attached. Applicants submit the  
reference(s) in compliance with their duty of disclosure pursuant to 37 CFR §1.56  
and 1.97. The Examiner is requested to make the citation(s) of official record.

This IDS is being submitted before first Office Action. Thus, no fee is due.  
However, if a first Office Action has been sent, the Commissioner is authorized to  
charge any necessary fee in connection with the submission of the IDS to Account No.  
50-0710 (Order No. JCLA12519).

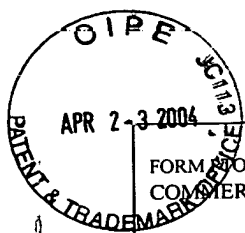
The submission of the references should not be interpreted as admitting them  
as prior art.

Respectfully submitted,  
**J.C. Patents**

Dated: 4/20/2004

By:   
Jiawei Huang  
Registration No. 43,330  
Agent of Record

**Correspondence Address:**  
4 Venture, Suite 250  
Irvine, CA 92618  
Tel: (949) 660-0761



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| FORM PTO-1449<br>COMMERCE<br>U.S. DEPARTMENT OF<br>PATENT AND TRADEMARK OFFICE<br><br><b>INFORMATION DISCLOSURE STATEMENT BY<br/>APPLICANT</b> | ATTY. DOCKET NO.: JCLA12519       | APPLICATION No.: 10/734,948 |
|  | APPLICANT: ICHIRO KAMIMURA et al. |                             |
|  | FILING DATE: December 11, 2003    | GROUP:                      |

#### U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL | DOCUMENT NUMBER | DATE     | NAME                    | CLASS | SUBCLASS | FILING DATE<br>(IF APPROPRIATE) |
|---------------------|-----------------|----------|-------------------------|-------|----------|---------------------------------|
|                     | 5,360,566       | 11/01/94 | Richard Stevenson       | 252   | 67       |                                 |
|                     | 4,416,119       | 11/22/83 | Raymond G. Wilson et al | 62    | 149      |                                 |

#### FOREIGN PATENT DOCUMENTS

| EXAMINER<br>INITIAL | DOCUMENT NUMBER | DATE     | COUNTRY       | CLASS | SUBCLASS | TRANSLATION |
|---------------------|-----------------|----------|---------------|-------|----------|-------------|
|                     | GB 2 085 565 A  | 04/28/82 | Great Britain |       |          |             |
|                     | 2002-235072     | 08/23/02 | Japan         |       |          |             |
|                     | FR 2.026.217 A  | 09/18/70 | France        |       |          |             |
|                     | 2001-19944      | 01/23/01 | Japan         |       |          |             |
|                     | JP 06-17040     | 01/25/94 | Japan         |       |          |             |
|                     | WO 97/07180 A   | 02/27/97 | PCT           |       |          |             |
|                     | DE 41 16 274 A1 | 11/19/92 | German        |       |          |             |

| EXAMINER<br>INITIAL | OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)   |
|---------------------|--|
|                     | <b>" Carbon Dioxide - Hydrocarbon-Mixtures as Alternative Fluids in Refrigeration Systems "</b><br>U. Hesse and H. Arnemann / Research Center for Refrigeration and Heat Pumps XP008026555 / Pages. 711-719              |
|                     | <b>"Thermodynamic Properties of The Natural Refrigerants: Mixtures Based on Dioxide Carbon – hydrocarbon "</b><br>G.K. Laverenchenko et al. / Odessa State Academy of Refrigeration XP00826558 / 1996-3 / Pages. 715-724 |
|                     | <b>"Experiment and Simulation on the Performance of an Autocascade Refrigeration System using carobon dioxide as a Refrigerant "</b><br>S.G. Kim and M.S. Kim / 2002 Elsevier Science Ltd IIR / Page 1093-1101           |
|                     |  |
|                     |  |

| EXAMINER | DATE CONSIDERED |
|----------|-----------------|
|----------|-----------------|

**EXAMINER:** INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.